

What is claimed is:

Sub Q¹ →

1. A jack shaft garage door operator for opening and closing a movable garage door, comprising:
a drive unit;
a jack shaft coupled to the drive unit to be turned thereby;
a pull-up cable drum connected to the jack shaft to be driven thereby;
a pull-up cable for connection to a movable garage door and connected to the pull-up cable drum to be raised and lowered thereby;
a pivotable arm mounted in proximity with the jack shaft and engaging the pull-up cable, said pivotable arm including a member for engaging the pull-up cable and holding it in tension, means for engaging the jack shaft to prevent further jack shaft rotation when the pull-up cable becomes slack; and
means for preventing the garage door from opening adapted for engagement by the pivotable arm when the garage door is lifted without the drive unit operating.

2. A jack shaft garage door operator for opening and closing a movable garage door according to claim 1 wherein the means for engaging the jack shaft comprises a cross bar.

Sub Q² →

3. A jack shaft garage door operator for opening and closing a garage door according to claim 1 wherein the means for preventing the garage door from opening comprises a door lock bracket that engages the movable arm.

4. A jack shaft garage door operator for opening and closing a garage door according to claim 1 further comprising a shaft lock hub mounted on the jack shaft and

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rotatable therewith, the shaft lock hub being engaged by the pivotable arm when the cable tension drops.